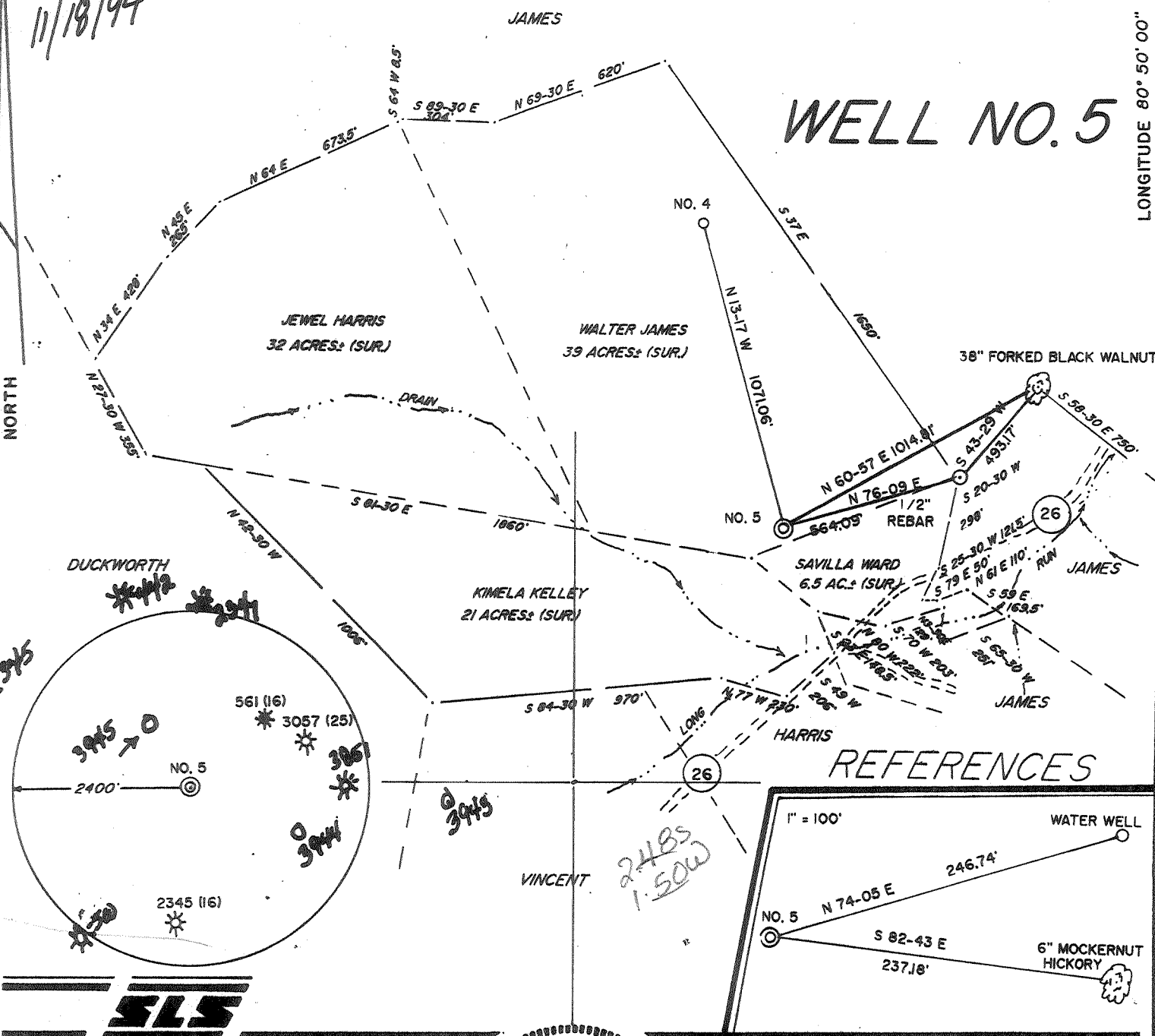
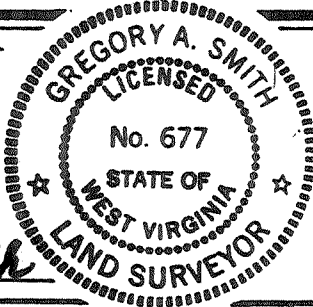


Jamil
3/6/92
11/18/94

HARRIS LEASE P/O 187 ACRES±



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.



L.L.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 15, 19 91
 OPERATORS WELL NO. HARRIS NO. 5
 API WELL NO. 47 - 017 - 39467
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2439 (38-41)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 839' SCALE 1" = 500'

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OIL AND GAS DIVISION

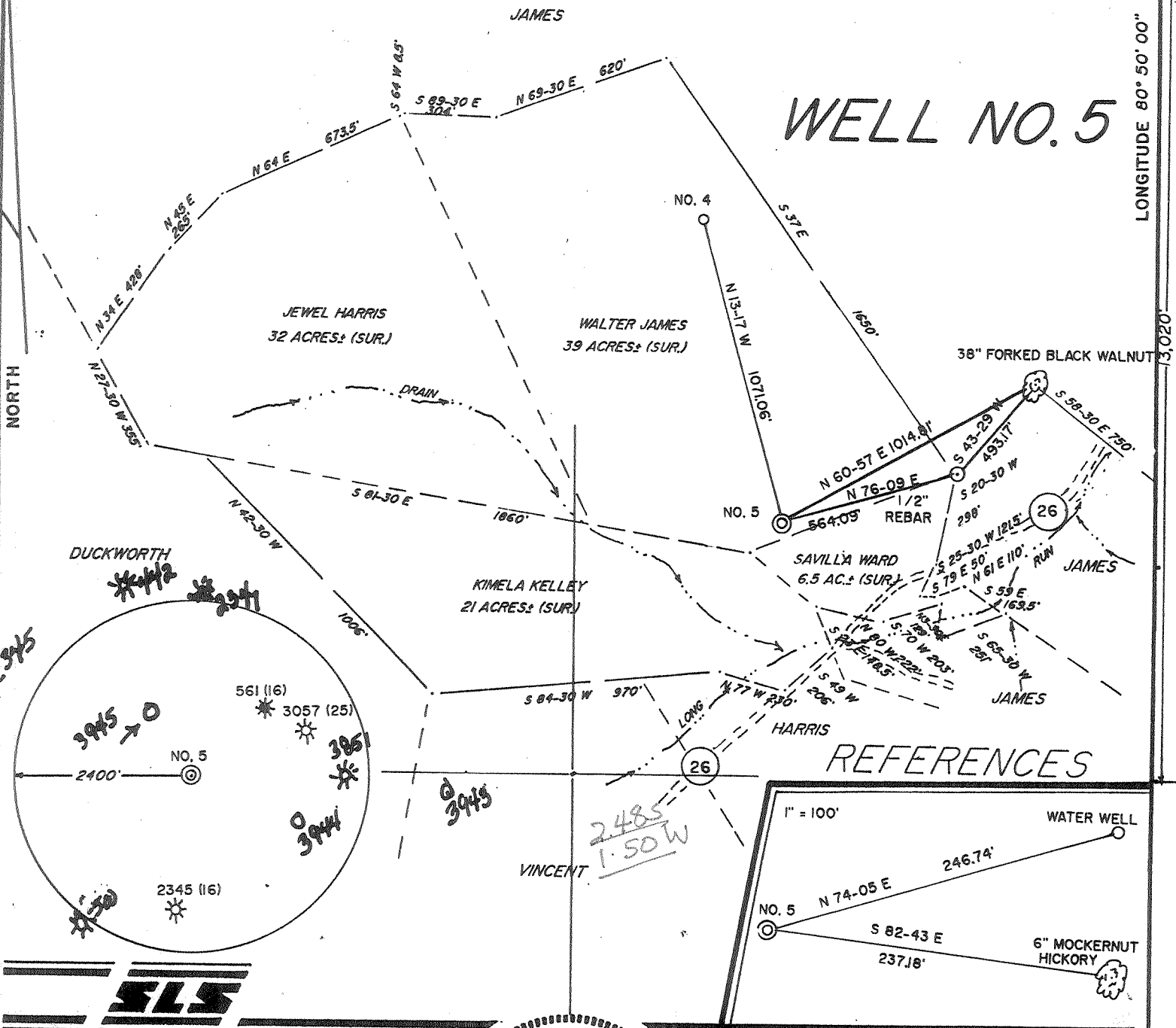
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 956' WATERSHED LONG RUN
 DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5'
 SURFACE OWNER WALTER JAMES ACREAGE 39
 ROYALTY OWNER DANIEL R. HARRIS HEIRS ET. AL. LEASE ACREAGE 39 OF 187
 PROPOSED WORK: *Sperry F* LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER _____
 PHYSICAL CHANGE IN WELL (SPECIFY) Final New Fractures London Sand, Nier, Big Harry TARGET FORMATION ALEXANDER
 ESTIMATED DEPTH 5900'

WELL OPERATOR DEVONIAN APPALACHIAN CO., Inc. DESIGNATED AGENT ROBERT ANDERSON
 ADDRESS RT. 1 BOX 114-B MINERAL WELLS, WV 26150 ADDRESS RT. 1 BOX 114-B MINERAL WELLS, WV 26150

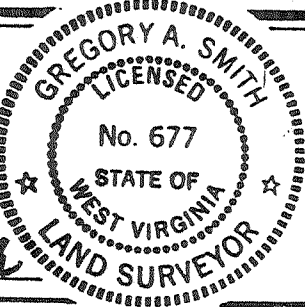
Janice
3/6/92

HARRIS LEASE P/10 187 ACRES±

WELL NO. 5



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENERGY.




L.L.S. 677 *Gregory A. Smith*

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE OCTOBER 15, 19 91
 OPERATORS WELL NO. HARRIS NO. 5
 API WELL NO. 47 - 017 - 3946
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1 / 200 FILE NO. 2439 (38-41)
 PROVEN SOURCE OF ELEVATION JUNCTION OF ROADS ELEVATION 839' SCALE 1" = 500'

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY
 OIL AND GAS DIVISION



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 956' WATERSHED LONG RUN DISTRICT CENTRAL COUNTY DODDRIDGE QUADRANGLE WEST UNION 7.5' ACREAGE 39

SURFACE OWNER WALTER JAMES ROYALTY OWNER DANIEL R. HARRIS HEIRS ET. AL. LEASE ACRES 39 OF 187

PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION ALEXANDER ESTIMATED DEPTH 5900'

WELL OPERATOR DEVONIAN APPALACHIAN CO., Inc. 4518 DESIGNATED AGENT ROBERT ANDERSON
 ADDRESS RT. 1 BOX 114-B MINERAL WELLS, WV 26150 ADDRESS RT. 1 BOX 114-B MINERAL WELLS, WV 26150

RECEIVED

WV Division of Environmental Protection

APR 08 92

API # 47-17-03946

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

Permitting
Office of Oil & Gas

Well Operator's Report of Well Work

Farm name: JAMES, WALTER B. Operator Well No.: HARRIS #5

LOCATION: Elevation: 956.00 Quadrangle: WEST UNION

District: CENTRAL County: BODDRIDGE
Latitude: 13020 Feet South of 39 Deg. 20Min. 00 Sec.
Longitude 8000 Feet West of 80 Deg. 50 Min. 00 Sec.

Company: DEVONIAN APPALACHIAN COMP
ROUTE 1, BOX 114B
MINERAL WELLS, WV 26150-0114

Agent: ROBERT A. ANDERSON

Inspector: MIKE UNDERWOOD
Permit Issued: 03/09/92
Well work Commenced: 3/31/92
Well work Completed: 4/7/98
Verbal Plugging
Permission granted on: _____
Rotary y Cable _____ Rig
Total Depth (feet) 5427'
Fresh water depths (ft) 96'
Salt water depths (ft) 1469'

Is coal being mined in area (Y/N)? N
Coal Depths (ft): NONE FOUND

Casing & Tubing Size	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
11 3/4	170	170	38CSR
8 5/8	1196'	1196'	1811.22 38CSR
4 1/2	5238'	5238'	1811.1 38CSR
			210' SACKS

OPEN FLOW DATA

Producing formation Alexander, Benson, Riley Pay zone depth (ft) 5104'
Gas: Initial open flow 850 MCF/d Oil: Initial open flow 1 Bbl/d
Final open flow 120 MCF/d Final open flow 0 Bbl/d
Time of open flow between initial and final tests 48 Hours
Static rock Pressure 1550 psig (surface pressure) after 1200 Hours

NONE →

Second producing formation NONE Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL FORMATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Reviewed FMG
Recorded _____

For: DEVONIAN APPALACHIAN COMPANY, INC.

By: [Signature]
Date: 4/8/92

APR 10 1992

RECEIVED
WV Division of
Environmental Protection

Frac: Perforate Alexander 5127'-2 shots, 5105-5110-10 shots; Perforate Benson 4818-4820-4shots; Frac with 750 gal 15% HCl, water sand 80,000# 16/30 mesh and Nitrogen assist

Perforate Riley 4435-37 4 shots, 4417-19 4 shots, 4401-03 4 shots 4333-35 4 shots. Frac with 500 gal 22% HCl and 40,000# 20/40 mesh sand in Nitrogen Foam-75 quality.

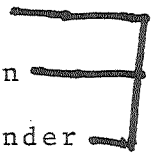
0' - 1196'

SAND & SHALE

100%

- 1196'-1364
- 1364'-1476
- 1476'-1536
- 1536'-1800
- 1800'-1896
- 1896'-2012
- 2012'-4400
- 4400'-4438
- 4438'-4814
- 4814'-4825
- 4825'-5104
- 5104'-5130
- 5130'-TD

sand and shale
 sand *Salt sand*
 sand and shale
 sand and shale
 lime
 Big Injun
 sand and shale
 Riley
 shale
 Benson
 shale
 Alexander
 shale



gas
 oil and gas
 gas
 gas

RECEIVED
 WV Division of
 Environmental Protection
 APR 08 92
 Permitting
 Office of Oil & Gas

13317

017-3946-F
 Issued 11/21/94
 Page ___ of ___
 Expires 11/21/96

FORM WW-2B NOV 14 1994

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS
 Office of Oil & Gas WELL WORK PERMIT APPLICATION

- 1) Well Operator: Devonian Appalachian Co., Inc. ⁴⁵¹⁸ 13530 (1) 671
- 2) Operator's Well Number: Harris #5 3) Elevation: 956
- 4) Well type: (a) Oil ___ / or Gas X /
 (b) If Gas: Production X / Underground Storage ___ /
 Deep ___ / Shallow X /
- 5) Proposed Target Formation(s): Gordon, Gantz, Wein, Big Injun ⁴¹⁹
- 6) Proposed Total Depth: 1900-2800' feet
- 7) Approximate fresh water strata depths: 196'
- 8) Approximate salt water depths: 1400'
- 9) Approximate coal seam depths: N/A
- 10) Does land contain coal seams tributary to active mine? Yes ___ / No X /
- 11) Proposed Well Work: Set plug, squeeze cement to 1500', Frac shallow
- 12) Pay zones, then knock out plug and co-mingle all production.

CASING AND TUBING PROGRAM

TYPE	SPECIFICATIONS		FOOTAGE INTERVALS		CEMENT	
	Size	Grade	Weight per ft.	For drilling		Left in well
Conductor	<u>11 3/4"</u>				<u>170'</u>	<i>Existing from well Record</i>
Fresh Water	<i>* Same as original well record</i>					
Coal	<u>8 3/4"</u>				<u>1196'</u>	<i>Cemented to surface</i>
Intermediate						
Production	<u>4 1/2"</u>				<u>5238'</u>	<u>+ 210 sacks</u>
Tubing						
Liners						

Q. Miller

PACKERS : Kind _____
 Sizes _____
 Depths set _____

For Division of Oil and Gas Use Only

Fee(s) paid: Well Work Permit Reclamation Fund WPCP
 Plat WW-9 WW-2B Bond C.D. Blanket Agent
 (Type)

20025

5244
36

RECEIVED
WV Division of
Environmental Protection

NOV 14 1994

Permitting
Office of Oil & Gas

Page 1 of _____
Form WW2-A
(09/87)

1) Date: 8/31/94
2) Operator's well number
Harris #5
3) API Well No: 47 - 017 - 3946
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name WALTER JAMES
Address General Delivery
Greenwood, WV 26300
(b) Name _____
Address _____
(c) Name _____
Address _____
6) Inspector Mike Underwood
Address Rt 2 Box 135
SNOW, WV, 26426
Telephone (304)-782-1043

5) (a) Coal Operator:
Name _____
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

_____ Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

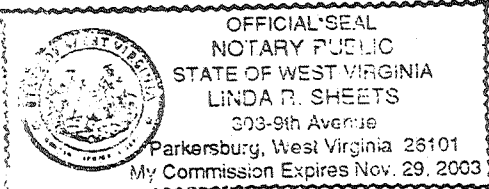
- Personal Service (Affidavit attached)
- Certified Mail (Postmarked postal receipt attached)
- Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

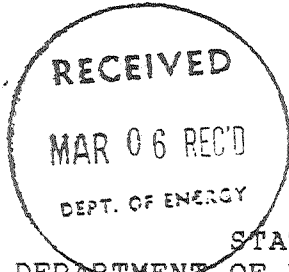
Well Operator Devonian Appalachian Co. Inc.
By: Robert B. Anderson
Its: President
Address 123 Windsor Dr.
Mineral Wells, WV 26150
Telephone (304) 488-9314



Subscribed and sworn before me this 31 day of August, 1994

Linda R. Sheets Notary Public

My commission expires _____



1) Date: _____
2) Operator's well number
Harris #5
3) API Well No: 47 - 017 - 3946
State - County - Permit

STATE OF WEST VIRGINIA
DEPARTMENT OF ENERGY, DIVISION OF OIL AND GAS

NOTICE AND APPLICATION FOR A WELL WORK PERMIT

4) Surface Owner(s) to be served:
(a) Name WALTER B James
Address Rt 1 Box 104
Greenbank, W.V. 26360
(b) Name _____
Address _____
(c) Name _____
Address _____

5) (a) Coal Operator:
Name Alta
Address _____
(b) Coal Owner(s) with Declaration
Name _____
Address _____
Name _____
Address _____

6) Inspector Mike Anderson
Address Rt 2 Box 135
Salmon, W.V. 26426
Telephone (304) - 782-1043

(c) Coal Lessee with Declaration
Name _____
Address _____

TO THE PERSON(S) NAMED ABOVE TAKE NOTICE THAT:

_____ Included is the lease or leases or other continuing contract or contracts by which I hold the right to extract oil and gas OR

_____ Included is the information required by Chapter 22B, Article 1, Section 8(d) of the Code of West Virginia (see page 2)

I certify that as required under Chapter 22B of the West Virginia Code I have served copies of this notice and application, a location plat, and accompanying documents pages 1 through _____ on the above named parties, by:

- _____ Personal Service (Affidavit attached)
- _____ Certified Mail (Postmarked postal receipt attached)
- _____ Publication (Notice of Publication attached)

I have read and understand Chapter 22B and 38 CSR 11-18, and I agree to the terms and conditions of any permit issued under this application.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete.

I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator Pennsylvanian Appalachian Co Inc.
By: Robert A Anderson
Its: President
Address Rt 1 Box 114 B
Marshall Wells W.V. 26850
Telephone (304) 484-9314

Subscribed and sworn before me this 12th day of November, 1991

Jinda R. Sheets Notary Public
My commission expires Nov. 29, 1993